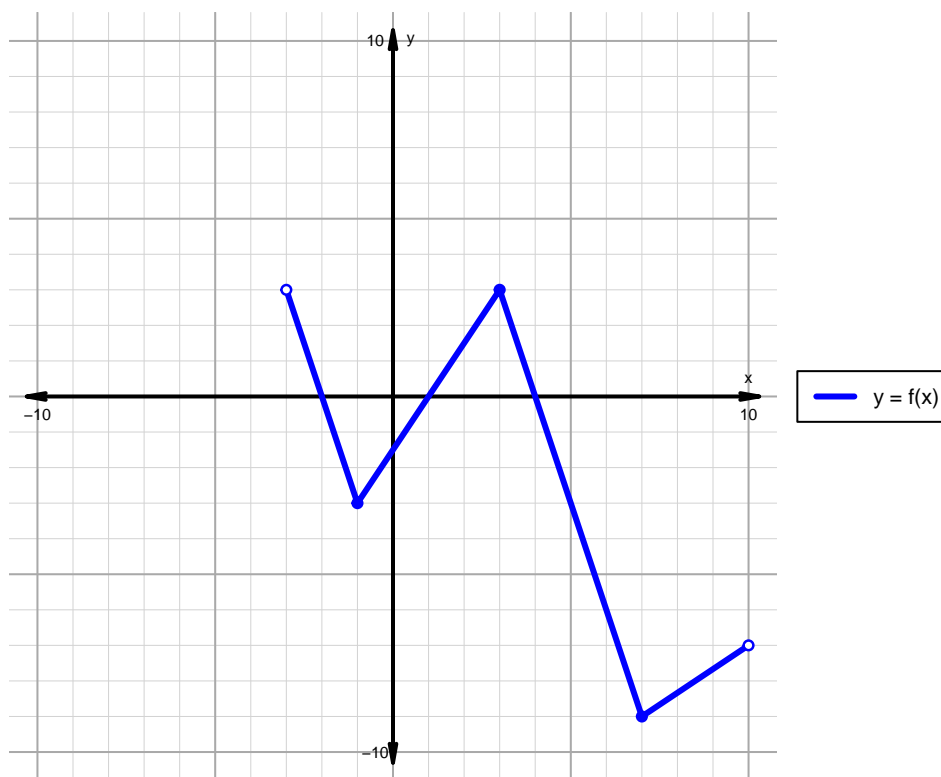


Name: _____

Date: _____

Intervals, Transformations, and Slope EXAM (version 106)

1. The function f is graphed below.

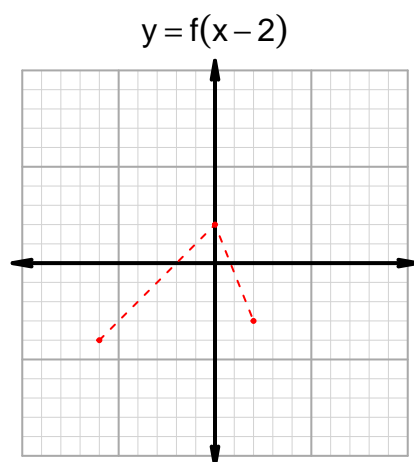
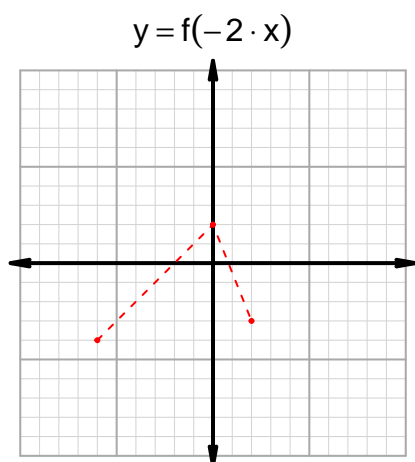
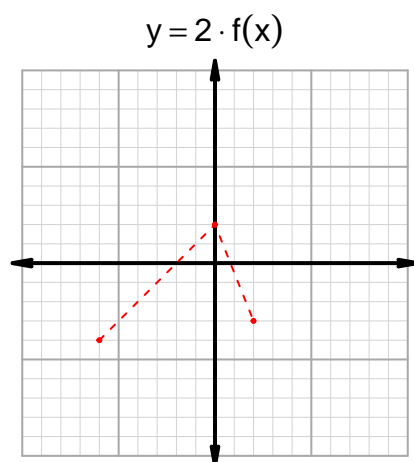
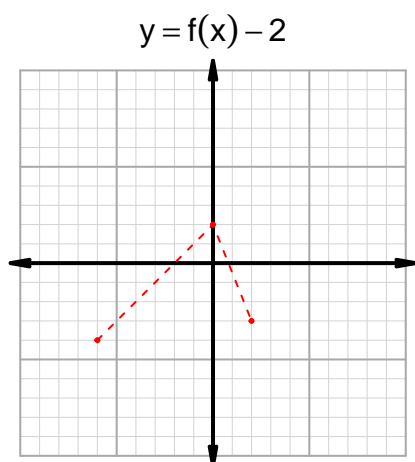


Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

Intervals, Transformations, and Slope EXAM (version 106)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 41$ and $x_2 = 59$. Express your answer as a reduced fraction.

x	$g(x)$
12	59
41	12
59	93
93	41